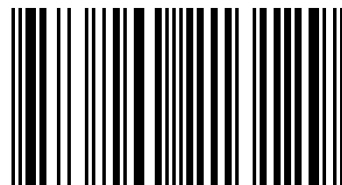


This monograph presents the results of researches carried out in oats, grown in conditions of organic production, obtained by analysing the morphological properties of the plants and chemical properties of the oats. The research was carried out in 2015 and 2016, on 11 oats genotypes, of foreign and domestic origin: Krivogashtani, Trebenishta, Kuchevishte, Rajac, Slavuj, Lovken, Kupa, Baranja, Eksplorer, Shampionka and Istra. The results show that the variety Kupa has the lowest plant height among all examined genotypes, while the variety Krivogashtani has the highest plants with a height above 100 cm. Since the height of the plant is in a negative correlation with the resistance of the lodging, the varieties suitable for breeding are: Kupa, Eksplorer, Trebenishta and Istra, whose height is less than 100 cm. The longest tassel in the period of the two years research have the varieties Lovken and Krivogashtani, with 21,5 cm and 26,8 cm respectively. The average grain yield per tassel in the two-year research period ranged from 1,2 g in the Kuchevishte population to 2,8 g in the Istra variety. The grain yield of oats per unit area, grown in conditions of organic production, in average.



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## Organic production of spring oats: required variety features